6 COURSE D – THE EXAMINATION OF INKS

6.1 Scope

6.1.1 The properties of Inks (approximately 40 hours)

6.1.2 Ink examination in the Document Section (approximately 56 hours)

6.1.3 Other Ink examinations (approximately 92 hours)

6.1.4 Examination/PE (approximately 8 hours)

6.2 Objective

To provide an overview of the history of writing inks, their manufacture, and the nondestructive laboratory examination and comparison of inks on documents.

6.3 Methods of Instruction

Self-directed study, practicals, demonstration, lecture

6.4 References

6.4.1 The properties of Inks

- Brunelle, R.L. & Reed, R.W., Forensic Examination of Ink and Paper, Charles C. Thomas Publisher, Springfield, IL, 1984, Chap 1-9
- Conway, J.V.P., Evidential Documents, Charles C. Thomas Publisher, Springfield, IL, 1959,pp 167-174
- Harrison, W.R., Suspect Documents, Frederick A. Praeger, NY, 1958, pp 12-24, 114-125, 132-136
- Hilton, O., Scientific Examination of Questioned Documents, Elsevier, Inc., NY 1982, pp 39-41, 126-131, 148, 275-277, 280-283
- Mitchell, Charles A., Inks: Their Composition and Manufacture, C. Griffin & Co., London, 1937, (familiarize with book)
- Saferstein, R., An Introduction to Criminalistics, Prentice Hall, Inc., 1977, Chap 34-36
- Osborn, A.S., Questioned Documents, Boyd Printing Co., Albany, NY, 2nd Edition, 1929, Chap 25
- Curry, A.S., Methods of Forensic Science, Vol. 2, Interscience Publishers, London, 1963, pp 35-75
- Ellen, D., The Scientific Examination of Documents: Methods and Techniques, Taylor and Francis, Ltd., 1997, pp 100-121
- Technical articles (as assigned)

6.4.2 Ink Examination in the Document Section

- Technical articles (as assigned)

6.4.3 Other Ink Examinations

- Technical articles (as assigned)

6.5 Standards

6.5.1 The student must be able to explain the general history of the development of writing inks.

6.5.2 The student must be able to describe the properties of modern writing inks.

6.5.3 The student must be able to explain the principal processes of laboratory examination and comparison of writing inks.

6.5.4 The student must demonstrate the ability to conduct the nondestructive examinations of writing inks typically performed in the Questioned Document Section.

6.5.5 The student must be able to explain the TLC process as it pertains to ink examinations.

6.6 Verification

6.6.1 Student must score at least 80 on a written test.

6.6.2 Student must complete a practical exercise (to the instructor's satisfaction) demonstrating the ability to differentiate inks using the VSC, Infrared microscope (if available), and Ultraviolet light box.

6.6.3 Student will have 196 hours to complete Course D.

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